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NOTICE OF ALLOWANCE AND FEE(S) DUE

20311

7590

12/15/2009

LUCAS & MERCANTI, LLP 475 PARK AVENUE SOUTH 15TH FLOOR NEW YORK, NY 10016 EXAMINER

ORTIZ RODRIGUEZ, CARLOS R

ART UNIT PAPER NUMBER

2123

DATE MAILED: 12/15/2009

APPLICATION NO. FILING DATE FIRST		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/565,534	03/01/2006	Kouhei Ohnishi	SAT-47	2148

TITLE OF INVENTION: POSITION/FORCE CONTROL DEVICE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	03/15/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notifications.	ed below or directed otl	ng the Patent, advance on the nerwise in Block 1, by (rders and notification a) specifying a new co	of m	naintenance fees w pondence address;	/ill be and/or	mailed to the current (b) indicating a sepa	corresparate "F	pondence address as FEE ADDRESS" for	
CURRENT CORRESPOND		Note: A certificate of mailing can only be used for domestic mailings of t Fee(s) Transmittal. This certificate cannot be used for any other accompanyi papers. Each additional paper, such as an assignment or formal drawing, mu have its own certificate of mailing or transmission.				other accompanying				
LUCAS & ME 475 PARK AVE 15TH FLOOR	7/2009			Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmitale is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.						
NEW YORK, N	IY 10016								(Depositor's name)	
									(Signature)	
									(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT)TOR		ATTORNEY DOCKET NO.		CONFIRMATION NO.	
10/565,534 TITLE OF INVENTION	03/01/2006 J: POSITION/FORCE C	ONTROL DEVICE	Kouhei Ohnishi				SAT-47		2148	
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nonprovisional	YES	\$755	\$300		\$0	\$1055			03/15/2010	
EXAM	MINER	ART UNIT	CLASS-SUBCLASS		1					
ORTIZ RODRIGUEZ, CARLOS R 2123			700-003000							
"Fee Address" inc PTO/SB/47; Rev 03-(Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Un	ND RESIDENCE DATA less an assignee is ident th in 37 CFR 3.11. Com	" Indication form	data will appear on th	native ingle or a attor I be p or typ ne pag an a	rely, e firm (having as a gent) and the nammers or agents. If printed. e) ttent. If an assignassignment.	membes of uno name	er a 2p to lee is 3leentified below, the definition	ocumei	nt has been filed for	
Please check the appropr	riate assignee category or	categories (will not be p	rinted on the patent):		Individual 🖵 Co	orporati	on or other private gro	oup ent	ity 🗖 Government	
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 							
	itus (from status indicate ns SMALL ENTITY stati		☐ b. Applicant is no	lons	er claiming SMAI	L EN	ГІТҮ status. See 37 СІ	₹R 1.2°	7(g)(2).	
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Typed or printed name			Registration No							
an application Confider	tiality is governed by 35 d application form to the ions for reducing this bu /irginia 22313-1450. DO	CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the D NOT SEND FEES OR	1.14 This collection i	e octi	imated to take 12 r	minuted	to complete includin	a antho	ering preparing and	

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10/565,534 03/01/2006		Kouhei Ohnishi	SAT-47	2148	
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475 PARK AVENU	JE SOUTH		ART UNIT	PAPER NUMBER	
15TH FLOOR NEW YORK, NY	10016		2123 DATE MAILED: 12/15/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 289 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 289 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
AL (* CAU L'')	10/565,534	OHNISHI ET AL.
Notice of Allowability	Examiner	Art Unit
	CARLOS ORTIZ RODRIGUEZ	2123
The MAILING DATE of this communication apperature of the second stress of the second stress of the second stress of the latest and the second stress of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included n will be mailed in due course. THIS
1. This communication is responsive to <u>11/20/09</u> .		
2. ☑ The allowed claim(s) is/are <u>1-9</u> .		
 3. Acknowledgment is made of a claim for foreign priority units. a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do 	e been received. e been received in Application No	
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submared in the subma	MENT of this application. Initted. Note the attached EXAMINER es reason(s) why the oath or declarates to be submitted. Is on's Patent Drawing Review (PTO). Is Amendment / Comment or in the oath of the drawithe header according to 37 CFR 1.121 posit of BIOLOGICAL MATERIAL	2'S AMENDMENT or NOTICE OF ation is deficient. -948) attached Office action of ings in the front (not the back) of (d). must be submitted. Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal I 6. ☐ Interview Summary Paper No./Mail Da 7. ☐ Examiner's Amend	Patent Application (PTO-413), ate

Application/Control Number: 10/565,534 Page 2

Art Unit: 2123

DETAILED ACTION

1. Claims 1-9 renumbered as 1, 4, 7, 2, 5, 8, 3, 6, 9, respectively, are pending.

2. Hereinafter claims are referred to by the new number.

3. The replacement sheet filed 11/20/09 has been entered.

Allowable Subject Matter

4. Claims 1-9 are allowed.

5. The following is an examiner's statement of reasons for allowance:

While Nowlin et al. (U.S. Patent 6,879,880) discloses position detection means and driving means for driving an object and Murakami et al., "Force Sensorless Impedance Control by Disturbance Observer", IEEE 1993 discloses a reaction force estimation observer, none of these references taken either alone or in combination with the prior art of record disclose a position and force control device, including:

(Claims 1, 4) "outputting an acceleration control signal based on said first and second acceleration signals to said driving means",

(Claim 7) "(xi) first control means for outputting a first generated acceleration control signal to the first driving means on the master side, based on the first added value outputted from the first addition means; and (xii) second control means for outputting a second generated accelerated control signal to the second driving means on the slave side, based on the second added value outputted from the second addition means",

Application/Control Number: 10/565,534 Page 3

Art Unit: 2123

in combination with the remaining elements and features of the claimed invention. It is for these reasons that the applicant's invention defines over the prior art of record.

Conclusion

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompanying the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carlos Ortiz-Rodriguez whose telephone number is 571-272-3766. The examiner can normally be reached on Mon-Fri 10:00 am- 6:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Rodriguez can be reached on 571-272-3753. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/565,534 Page 4

Art Unit: 2123

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Carlos Ortiz-Rodriguez Patent Examiner Art Unit 2123

December 11, 2009

/Paul L Rodriguez/ Supervisory Patent Examiner, Art Unit 2123